13 May 1959

MEMORA MENM		478.72	NET?	and
	# L45			w

25X1A 25X1A

brackets.

SUBJECT : Aircraft Door Modification, Power Assist	
REFERENCE: Memorandum for	25X1A
	25X1A
1. A feasibility study for power operation of the cargo doors (0-54) has been conducted on a cursory basis tations submitted. A mechanical and electrical system we 2. The cost differential between an electrical vs. system is approximately 3 to 1 for the prototype model. estimated at a minimum of three menths for the electrical month for the mechanical assist.	and bungetary quo- re investigated. a mechanical Programming is
3. A meeting held on 29 April 1959 (Ref: Memorando DFD-2851-59 - between representative cal assist program in abeyance due to the limited aircraft and necessary additional funds required.	rical or mechani-
Mechanical assist could be readily installed in the field The undersigned cautioned against such an approach on the unless a sound engineering approach is contemplated, a "create torsional forces not anticipated in the door design a "Jury Rig" could probably be used on a very limited be	i if necessary. grounds that Tury Rig" could gn. However,

5. The existing prototype door, with proposed modifications, will be service tested for \$1% (6) months to determine component wear and serviceability prior to fabrication of production models.

mind the door tracking relationship of guide rollers, track, and roller

6. From the experience gained during the installation, it is recommended that future installation of the inward spening cargo doors be conducted by the contractor in this country. Initially it was conceived that the door modification be fabricated and issued in a kit form for field installation. Due to the complexity of the installation and personnel situation in the field the kit form approach is not feasible.

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- 7. A more positive emergency exit is desired for the protetype inward opening door system. Pursuant to the April 29 meeting with DFD, the warrhead inward opening rear cargo door will be replaced with an autward opening hinged door. The hinged rear door will serve as the ground exit and entrance to the aircraft and will also serve as the emergency exit. The rear door will be designed for opening either inside or outside the aircraft. An emergency release mechanism will allow for inflight and ground jettison. The priginal cargo doors will be used for salvage parts and to aid in fabrication.
- 8. The aircraft is to be made available at Friendship Airport for installation of the emergency release rear door by 25 May or before. The estimated installation completion date has been set as 27 May 1959. (Correction to Memorandum DFD-3121-59/May 1959 paragraph 3 A). The aircraft availability period was coordinated with by telephone.

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9. TES/ED was requested verbally by DFD/OFS to investigate the feasibility of utilizing the sliding TWA door (TO-1C-121C-9) for inflight operation. Arrangements were made by DFD to visit Mational Airport (MATS) and examine the sliding door of a C-121. At present TSS/ED is having a feasibility study made.

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